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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

12/31/2009

David Dawes 5831 Castleknock Road **Dublin**, OH 40316

10/650,461

**EXAMINER** RADKOWSKI, PETER ART UNIT PAPER NUMBER

7106

2883

DATE MAILED: 12/31/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650.461	08/27/2003	David Dawes		7106

TITLE OF INVENTION: OPTICALLY COUPLING INTO HIGHLY UNIFORM WAVEGUIDES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/31/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further correspondence indicated unless corrected below or direct maintenance fee notifications.	including the cted otherwise	Patent, advance or in Block 1, by (a	ders and notification of a) specifying a new corre	maintenance fees v spondence address;	/ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of th Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mushave its own certificate of mailing or transmission.				
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David Dawes 5831 Castleknock Road Dublin, OH 40316			I h Sta ado tra	ereby certify that the tes Postal Service values of the Mail assisted to the USP	is Fee( tith suf Stop TO (57	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.	
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APPLICATION NO. FILING	DATE		FIRST NAMED INVENTOR	₹	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/650,461 08/27	7/2003		David Dawes				7106	
ΠΤLE OF INVENTION: OPTICALLY C	OUPLING IN	ITO HIGHLY UNI	FORM WAVEGUIDES					
APPLN. TYPE SMALL ENTI	TY IS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional YES		\$755	\$300	\$0		\$1055	03/31/2010	
EXAMINER		ART UNIT	CLASS-SUBCLASS	]				
RADKOWSKI, PETER	•	2883	385-129000	_				
1. Change of correspondence address or in CFR 1.363).	ndication of "F	ee Address" (37	2. For printing on the			1		
Change of correspondence address Address form PTO/SB/122) attached.	(or Change of	Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee A								
PTO/SB/47; Rev 03-02 or more recent Number is required.	t) attached. Us	e of a Customer	2 registered patent att- listed, no name will be	ornevs or agents. If	no nam	ie is 3		
3. ASSIGNEE NAME AND RESIDENCE	E DATA TO E	E PRINTED ON T	L THE PATENT (print or ty	rpe)				
PLEASE NOTE: Unless an assignee recordation as set forth in 37 CFR 3.11	is identified b	elow, no assignee	data will appear on the p	patent. If an assign	ee is id	lentified below, the de	ocument has been filed for	
(A) NAME OF ASSIGNEE	. Completion	or this form is 140	(B) RESIDENCE: (CIT		OUNT	RY)		
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Please check the appropriate assignee cate	gory or catego	ories (will not be pr	inted on the patent):	■ Individual 🖵 Co	orporati	on or other private gro	oup entity    Government	
4a. The following fee(s) are submitted:		46	Payment of Fee(s): (Ple	ase first reapply a	ıy prev	iously paid issue fee	shown above)	
☐ Issue Fee☐ Publication Fee (No small entity discount permitted)			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Status (from status i	ndicated above	e)	1,5 , 1				7	
a. Applicant claims SMALL ENTIT			b. Applicant is no lo					
NOTE: The Issue Fee and Publication Fee interest as shown by the records of the Un	e (if required) ited States Pat	will not be accepted ent and Trademark	l from anyone other than Office.	the applicant; a regi	stered a	attorney or agent; or th	e assignee or other party in	
Authorized Signature				Date				
Typed or printed name								
This collection of information is required an application. Confidentiality is governee submitting the completed application for his form and/or suggestions for reducing Box 1450, Alexandria, Virginia 22313-14	by 37 CFR 1.3 d by 35 U.S.C m to the USPT this burden, s.	11. The information 122 and 37 CFR O. Time will vary thould be sent to the SEND FEES OF 6	on is required to obtain or 1.14. This collection is est depending upon the indiction of the company of the com	retain a benefit by t stimated to take 12 p vidual case. Any co eer, U.S. Patent and	he publ ninutes mment Traden	ic which is to file (and to complete, includin s on the amount of tin ark Office, U.S. Depo	I by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Roy, 1450.	

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/650,461	08/27/2003	David Dawes	7106		
75	590 12/31/2009		EXAM	IINER	
David Dawes			RADKOWSKI, PETER		
5831 Castleknock Road			ART UNIT	PAPER NUMBER	
Dublin, OH 40316			2883		
			DATE MAILED: 12/31/200	9	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/650,461	DAWES, DAVID					
Notice of Allowability	Examiner	Art Unit					
	   PETER RADKOWSKI	2883					
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commur IGHTS. This application is su	this application. If not included nication will be mailed in due course					
2. 🔀 The allowed claim(s) is/are <u>1,3,4,6-14 and 21-25</u> .							
3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE".	been received. been received in Application cuments have been received	No in this national stage application fro					
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXAI	MINER'S AMENDMENT or NOTICE					
<ul> <li>5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> <li>6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ul>							
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sul Paper No./N 7. ☐ Examiner's A	ormal Patent Application mmary (PTO-413), fail Date mendment/Comment statement of Reasons for Allowance	<b>=</b>				

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Art Unit: 2883

## **Detailed Office Action**

#### **Comments**

1. Claims 2, 5, and 15-20 were canceled by the applicant.

### Response to Applicant's Arguments

2. As applicant argues, prior art reference Keneko et al. (6,088,492; "Kaneko") fails to teach an optical waveguide device having a lens duct "formed integrally" with an amorphous slab waveguide. Remarks, p. 4, ll. 11-19. This argument is persuasive in light of applicant's amendments to independent claims 1 and 21 wherein applicant adds the limitations of "the at least one amorphous film-based slab waveguide including a lens duct formed integrally with the slab waveguide. These limitations facilitate the coupling of light transmitted from a diode laser.

Keneko remains the closest prior art of record in this application. However, in light of the applicant's amendment, claims 1, 3-4, 6-14; and 21-25 are allowable as distinguished over the prior art of record because of the reason stated above. It is this examiner's position that prior art, taken alone, fails to disclose or, taken in combination, fails to render obvious the limitations of the claims discussed above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Reasons for Allowance."

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Art Unit: 2883

### Allowable Subject Matter

3. Claims 1, 3-4 and 6-14 are allowed.

Independent claim 1 is allowed because the prior art, taken alone, fails to disclose or, taken in combination, fails to render obvious an optical waveguide device comprising: at least one laser diode; at least one amorphous film-based slab waveguide; wherein the at least one amorphous film-based slab waveguide includes a lens duct formed integrally with the slab waveguide; in combination with the other recited limitations in the claim.

Claims 3-4 and 6-14 are allowable as dependent upon claim 1.

4. Claims 21-25 are allowed.

Independent claim 21 is allowed because the prior art, taken alone, fails to disclose or, taken in combination, fails to render obvious an optical waveguide device comprising: at least one laser diode; at least one amorphous film-based, biased pulsed DC plasma vapor-deposited slab waveguide; wherein the at least one amorphous film-based slab waveguide includes a lens duct formed integrally with the slab waveguide; in combination with the other recited limitations in the claim.

Claims 22-25 are allowable as dependent upon claim 21.

#### Conclusion

5. The prior art made of record in Form 892 and not relied upon is considered pertinent to applicant's disclosure.

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Art Unit: 2883

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Radkowski whose telephone number is (571) 270-1613. The examiner can normally be reached on Monday - Thursday, 8 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font, can be reached on (517) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, See http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call (800) 786-9199 (IN USA OR CANADA) or (571) 272-1000.

/Peter P. Radkowski/ Patent Examiner, Art Unit 2883 /Frank G Font/ Supervisory Patent Examiner, Art Unit 2883